

RD4

4" ROUND RECESSED

A versatile 4" round aperture recessed LED fixture, offered in downlight, accent, and wall wash. Available in flanged and flangeless, with a wide range of lumen outputs and optical control options to suit a variety of applications. See page 2 for lumens/wattage data.

PROJECT: _____
 QUANTITY: _____ TYPE: _____



PRODUCT SELECTOR GUIDE

SERIES	LUMENS	CCT	OPTICS	DRIVER / DIMMING / VOLTAGE	OPTIONS	BAR HANGER	TRIM	FINISH	FLANGE FINISH	LENSES
EXAMPLE										
RDFO4PC	10L	35K	MD	DS2W1	EM	H12	RD4FPC	MW	MF	SOX

FIXTURE HOUSING SPECIFICATION

Series		LUMENS¹		CCT		OPTICS		DRIVER / DIMMING / VOLTAGE ²		EMERGENCY		BAR HANGER OPTIONS³	
FLANGE		80 CRI				DOWNLIGHT		E_ Electronic Driver DO10_ 1% 0-10v DS2W1 ELV/Triac AWN_ Athena Wireless Node (RF Module Only)	1 120V 2 277V	EM Integral Emergency Battery	BH27* 27" Solid Bars H12 12" - 24" Expandable Bars CB24 24" C-Channel Bars		
RDFO4PC	Downlight	10L	687 Lm	27K	2700K	ND	18°						
RAFO4PC	Adjustable	15L	997 Lm	30K	3000K	MD	23°						
RWFO4PC	Wall Wash	20L	1299 Lm	35K	3500K	WD	43°						
		30L	1927 Lm	40K	4000K	XW	50°						
		40L	2471 Lm										
		50L	3139 Lm										
FLANGELESS		90 CRI				ADJUSTABLE							
RDZO4PC	Downlight					ND	22°						
RAZO4PC	Adjustable					MD	28°						
RWZO4PC	Wall Wash	10L	602 Lm	27HK	2700K	WD	41°						
		15L	873 Lm	30HK	3000K	XW	45°						
		20L	1138 Lm	35HK	3500K								
		30L	1688 Lm	40HK	4000K								
		40L	2165 Lm										
		50L	2750 Lm										

AVAILABLE TRIM / MODULE TYPES



TRIM / MODULE SPECIFICATION

TRIM	FINISH	FLANGE FINISH	LENSES ⁹
FLANGE ⁵	MW* Matte White MB Matte Black PT Platinum Silver SG* Soft Glow HZ Haze CC* Custom Color *Use MF for matching Flange when choosing MW	MF* Match Flange NON MATCHING WF White Flange BF Black Flange SF Platinum Flange CCF Custom Color FLANGELESS No Option Available *Use MF for matching Flange when choosing MW	SOX* Solite Micro Prism Lens GLX** Clear Glass Lens SOW Solite Micro Prism Lens Wet Location GLW Clear Glass Lens Wet Location WALL WASH SKX** Linear Wall Wash Lens SKW Linear Wall Wash Lens Wet Location
RD4FPC Downlight			
RA4FPC Adjustable			
RW4FPC Wall Wash			
FLANGELESS ⁶			
RD4NPC Downlight			
RA4NPC Adjustable			
RW4NPC Wall Wash			

NOTES:

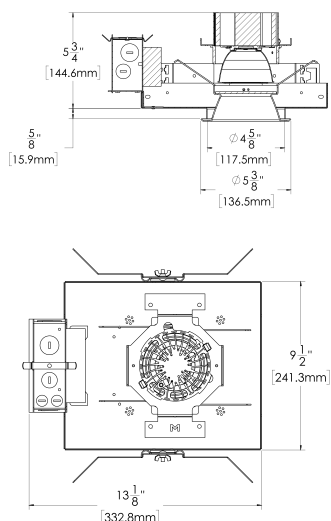
1 Nominal Delivered Lumens at 80CRI at any CCT with MD-SG-MF. 2 Contact Factory for Additional Options. 3 See Products Options Page for Details. 4 Standard Bar Hangers. 5 "F" Indicates Self-Flanged Trim. 6 "N" Indicates Flangeless Trim. 7 Standard Finish (SG). 8 Contact Factory for Special Finishes. 9 Contact Factory for Special Lenses / Louvers. 10 Standard Lens for MD, WD, XW - Dwn & Adj. 11 Standard Lens for ND - Dwn & Adj. 12 Standard Lens for Wall Wash.



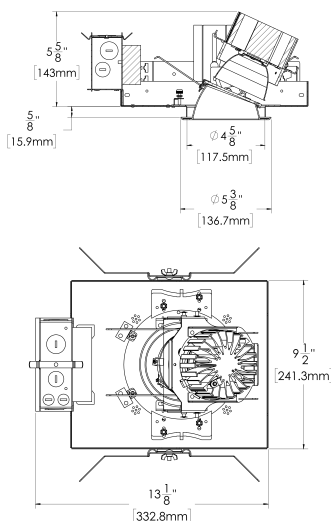
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HOUSING DIMENSIONS

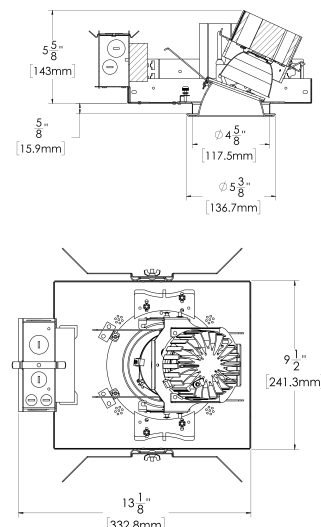
RDF04PC - Downlight



RAFO4PC - Adjustable



RWF04PC - Wall Wash



LUMENS / WATTAGE DATA Nominal Delivered Lumens at 80CRI at any CCT with MD-SG-MF.

RDF04PC - Downlight

PART NUMBER	SOURCE LUMENS	DELIVERED LUMENS	SYSTEM WATTS	LPW
RDF04PC10L	1000	687	6.82	100.73
RDF04PC15L	1500	997	9.97	100
RDF04PC20 L	2000	1299	13.84	93.86
RDF04PC30L	3000	1927	20.65	93.32
RDF04PC40L	4000	2471	28.18	87.69
RDF04PC50L	5000	3139	35.27	89

FINISH



FEATURES

Two-stage optical system, for smooth light distribution and focus control. Quick change LED module with interchangeable optics for job site adjustment and fixture maintenance. Shallow plenum design. Tool-less driver and j-box access. Posi-lock trim retention torsion springs.

- Adjustable Accent LED module tilts 35° and rotates 360°.

TRIM FINISH

A variety of architectural powdercoat and anodized finishes are available.

ELECTRONICS

LED system features state of the art, high efficiency LEDs providing consistent stable color with excellent CCT control over the life of the light engine. Base 80 min CRI with 3-step MacAdam ellipse binning. High CRI of 90 min is also available as a standard option. A variety of electronic 120/277V and dimming options are available. Emergency backup version available as standard option.

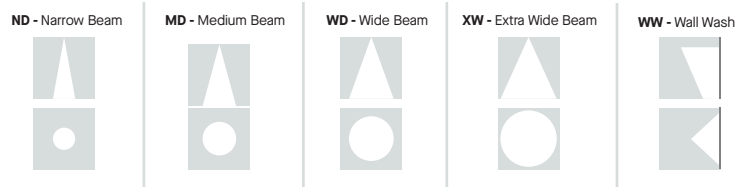
CONSTRUCTION

Housing/frame constructed of #20 ga. Galvanized steel to resist corrosion. Self-flanged or flangeless one-piece trim spun from 0.063" thick high purity aluminum and finished to specification.

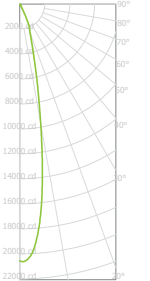
CODE COMPLIANCE

BAA Compliant. Non-IC rated. UL certified to meet US and Canadian standards. Suitable for dry or damp locations. Optional Wet Location. Manufactured and tested to UL standards No. 1598/8750.

OPTICS



RDF04PC50L35KNDE1-RD4FPCSGMF - Downlight

CANDLEPOWER CURVE TEST SP-R200	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT								
			Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 4		RCR 6				
	0.00°		0° - 10°	1345	41%										
	0.00°	20561	0° - 20°	2569	79%										
	5.00°	17851	0° - 30°	3104	95%	5.5' -	680 fc	1.7' -	326 fc						
	10.00°	9680	0° - 40°	3201	98%	6.5' -	487 fc	2.0' -	233 fc						
	15.00°	4412	0° - 60°	3261	100%	7.5' -	366 fc	2.3' -	175 fc						
	20.00°	2414	0° - 80°	3270	100%	8.5' -	285 fc	2.7' -	137 fc						
	30.00°	241	0° - 90°	3271	100%	10.0' -	206 fc	3.1' -	99 fc						
	40.00°	96	Total	3271	100%	12.0' -	143 fc	3.8' -	68 fc						
	50.00°	24				14.0' -	105 fc	4.4' -	50 fc						
	60.00°	13				16.0' -	80 fc	5.0' -	39 fc						
	70.00°	1													
	80.00°	2													
	90.00°	1													

Delivered Lumens: 3271

CP at 0deg (Nadir): 20561

Beam Angle: 17.8

Lumen Multiplier: 10L x 0.219, 15L x 0.317, 20L x 0.414, 30L 0.614, 40L x 0.787

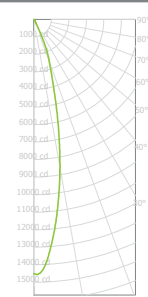
Luminaire Watts: 35.2
LER: 92.93

CRI: 80+

Spacing Ratio: 0.33

CCT Multiplier: 27K x 0.974, 30K x 0.973, 40K x 1.04, 27HK x 0.773, 30HK x 0.857, 35HK x 0.876, 40HK x 0.888

RDF04PC50L35KMDE1-RD4FPCSGMF - Downlight

CANDLEPOWER CURVE TEST SP-R199	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT								
	0.00°		0° - 10°	1059	34%	Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 4		RCR 6	
	0.00°	14508	0° - 20°	2400	76%							FC *	W/Sq. Ft.	FC *	W/Sq. Ft.
	5.00°	12520	0° - 30°	2963	94%	9'	2'	744	8.55	612	7.57				
	10.00°	8609	0° - 40°	3057	97%	12'	2'	659	7.57	562	6.95				
	15.00°	4806	0° - 60°	3130	100%	16'	4'	173	1.98	142	1.76				
	20.00°	2608	0° - 80°	3138	100%	Delivered Illuminance Rating: (DIR)		87 FC per W/Sq. Ft.				81 FC per W/Sq. Ft.			
	30.00°	200	0° - 90°	3139	100%										
	40.00°	99	Total	3139	100%	Recessed Mounting Square rooms used for multiple units: - RCR 4: Length & Width = Ceiling Ht. -2.5' x 2.50 - RCR 6: Length & Width = Ceiling Ht. -2.5' x 1.66 * Average Initial Footcandles at 2.5' Above Floor									
	50.00°	26													
	60.00°	9													
	70.00°	2													
	80.00°	2													
	90.00°	1													

Delivered Lumens: 3139

CP at 0deg (Nadir): 14508

Beam Angle: 22.39

Lumen Multiplier: 10L x 0.219, 15L x 0.317, 20L x 0.414, 30L 0.614, 40L x 0.787

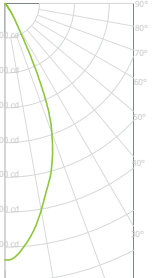
Luminaire Watts: 35.27
LER: 89.00

CRI: 80+

Spacing Ratio: 0.39

CCT Multiplier: 27K x 0.974, 30K x 0.973, 40K x 1.04, 27HK x 0.773, 30HK x 0.857, 35HK x 0.876, 40HK x 0.888

RDF04PC50L35KWDE1-RD4FPCSGMF - Downlight

CANDLEPOWER CURVE TEST SP-R201	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT												
	0.00°		0° - 10°	643	19%	Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 3		RCR 5					
	0.00°	7370	0° - 20°	2075	61%							FC *	W/Sq. Ft.	FC *	W/Sq. Ft.				
	15.00°	5091	0° - 30°	3113	92%	5.5' -	244 fc	4.2' -	100 fc	9'	4'	181	1.87	163	1.87				
	30.00°	708	0° - 40°	3322	98%	6.5' -	174 fc	5.0' -	71 fc	12'	4'	217	2.24	136	1.56				
	40.00°	6	0° - 60°	3384	100%	7.5' -	131 fc	5.7' -	54 fc	16'	6'	82	0.85	67	0.77				
	60.00°	2	0° - 80°	3390	100%	8.5' -	102 fc	6.5' -	42 fc	Delivered Illuminance Rating: (DIR)		97 FC per W/Sq. Ft.		87 FC per W/Sq. Ft.					
	90.00°	2	0° - 90°	3392	100%	10.0' -	74 fc	7.7' -	30 fc										
			Total	3392	100%	12.0' -	51 fc	9.2' -	21 fc	Recessed Mounting Square rooms used for multiple units: - RCR 3: Length & Width = Ceiling Ht. -2.5' x 3.33 - RCR 5: Length & Width = Ceiling Ht. -2.5' x 2.00 * Average Initial Footcandles at 2.5' Above Floor									
						14.0' -	38 fc	10.7' -	15 fc										
						16.0' -	29 fc	12.2' -	12 fc										

Delivered Lumens: 3392

CP at 0deg (Nadir): 7370

Beam Angle: 41.86

Lumen Multiplier: 10L x 0.219, 15L x 0.317, 20L x 0.414, 30L 0.614, 40L x 0.787

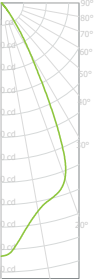
Luminaire Watts: 35.09
LER: 96.67

CRI: 80+

Spacing Ratio: 0.67

CCT Multiplier: 27K x 0.974, 30K x 0.973, 40K x 1.04, 27HK x 0.773, 30HK x 0.857, 35HK x 0.876, 40HK x 0.888

RDF04PC50L35KXWE1-RD4FPCSGMF - Downlight

CANDLEPOWER CURVE TEST SP-R202	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT									
	0.00°	0° - 10° 492 14%	Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4					
	0.00° 5646	0° - 20° 1775 52%							FC *	W/Sq. Ft.	FC *	W/Sq. Ft.				
	10.00° 4713	0° - 30° 3022 88%							9'	4'	217	2.13	194	2.13		
	20.00° 4154	0° - 40° 3368 98%							12'	6'	102	1.00	91	1.00		
	30.00° 1250	0° - 60° 3434 100%							16'	8'	50	0.49	45	0.49		
	40.00° 168	0° - 80° 3440 100%							Delivered Illuminance Rating: (DIR)				102 FC per W/Sq. Ft.		91 FC per W/Sq. Ft.	
	50.00° 23	0° - 90° 3441 100%							Recessed Mounting Square rooms used for multiple units: - RCR 2: Length & Width = Ceiling Ht. -2.5' x 5.00 - RCR 4: Length & Width = Ceiling Ht. -2.5' x 2.50 * Average Initial Footcandles at 2.5' Above Floor							
	60.00° 6	Total 3441 100%														
	70.00° 2															
	80.00° 1															
	90.00° 1															

Delivered Lumens: 3441

CP at 0deg (Nadir): 5646

Beam Angle: 49.78

Lumen Multiplier: 10L x 0.219, 15L x 0.317, 20L x 0.414, 30L 0.614, 40L x 0.787

Luminaire Watts: 35.2
LER: 97.76

CRI: 80+

Spacing Ratio: 0.83

CCT Multiplier: 27K x 0.974, 30K x 0.973, 40K x 1.04, 27HK x 0.773, 30HK x 0.857, 35HK x 0.876, 40HK x 0.888

RAFO4PC50L35KNDE1-RA4FPCSGMF - Adjustable

CANDLEPOWER CURVE
TEST SP-R205

INTENSITY

CP at 0°

0°	4486
5°	8985
15°	18426
25°	6887
35°	407
45°	14
55°	4
65°	3
75°	2
85°	1
90°	0

ZONAL LUMENS

0° - 10°	503	19%
0° - 20°	1821	68%
0° - 30°	2558	95%
0° - 40°	2658	99%
0° - 60°	2680	100%
0° - 80°	2684	100%
0° - 90°	2685	100%

INITIAL FC ON VERTICAL PLANE
30° aiming angle

A	B	C	1	2	3	W	L1	L2
2'	3.5'	140 fc	141 fc	64 fc	25 fc	1.3'	2.8'	1.0'
3'	5.2'	62 fc	63 fc	28 fc	11 fc	1.9'	4.2'	1.5'
4'	6.9'	35 fc	35 fc	16 fc	6 fc	2.6'	5.6'	2.0'
6'	10.4'	16 fc	16 fc	7 fc	3 fc	3.8'	8.3'	3.0'

Dimensions W, L1 and L2 based on beam angle

INITIAL FC ON HORIZONTAL PLANE
30° aiming angle

A	B	C	1	2	3	W	L1	L2
6'	3.5'	81 fc	51 fc	39 fc	29 fc	2.2'	2.6'	1.2'
8'	4.6'	46 fc	29 fc	22 fc	16 fc	3.0'	3.4'	1.6'
10'	5.8'	29 fc	18 fc	14 fc	10 fc	3.7'	4.3'	2.0'
12'	6.9'	20 fc	13 fc	10 fc	7 fc	4.4'	5.2'	2.3'

Dimensions W, L1 and L2 based on beam angle

Delivered Lumens: 2685

CP at 0° (Nadir): 4486

Beam Angle: 18°

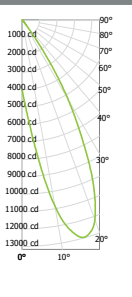
Lumen Multiplier: 10L x 0.223, 15L x 0.323, 20L x 0.423, 30L x 0.62, 40L x 0.81

Luminaire Watts: 35.31
Efficacy: 76.04

CCT Multiplier: 27K x 0.974, 30K x 0.973, 40K x 1.04, 27HK x 0.773, 30HK x 0.857, 35HK x 0.876, 40HK x 0.888

RAFO4PC50L35KMDE1-RA4FPCSGMF - Adjustable

CANDLEPOWER CURVE
TEST SP-R204



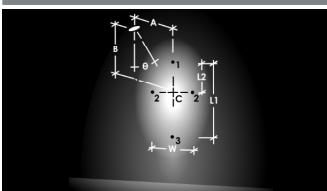
INTENSITY

CP at 0°	
0°	4031
5°	6659
15°	12902
25°	9125
35°	1649
45°	50
55°	3
65°	2
75°	2
85°	1
90°	1

ZONAL LUMENS

0° - 10°	415	15%
0° - 20°	1515	57%
0° - 30°	2423	90%
0° - 40°	2641	99%
0° - 60°	2672	100%
0° - 80°	2677	100%
0° - 90°	2678	100%

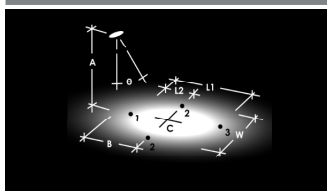
INITIAL FC ON VERTICAL PLANE
30° aiming angle



A	B	C	1	2	3	W	L1	L2
2'	3.5'	126 fc	149 fc	54 fc	15 fc	1.7'	3.8'	1.2'
3'	5.2'	56 fc	66 fc	24 fc	7 fc	2.5'	5.8'	1.8'
4'	6.9'	31 fc	37 fc	13 fc	4 fc	3.3'	7.7'	2.5'
6'	10.4'	14 fc	17 fc	6 fc	2 fc	5.0'	11.5'	3.7'

Dimensions W, L1 and L2 based on beam angle

INITIAL FC ON HORIZONTAL PLANE
30° aiming angle



A	B	C	1	2	3	W	L1	L2
6'	3.5'	73 fc	48 fc	35 fc	23 fc	2.9'	3.4'	1.5'
8'	4.6'	41 fc	27 fc	20 fc	13 fc	3.9'	4.5'	2.0'
10'	5.8'	26 fc	17 fc	13 fc	8 fc	4.8'	5.7'	2.5'
12'	6.9'	18 fc	12 fc	9 fc	6 fc	5.8'	6.8'	3.0'

Dimensions W, L1 and L2 based on beam angle

Delivered Lumens: 2678

CP at 0° (Nadir): 4031

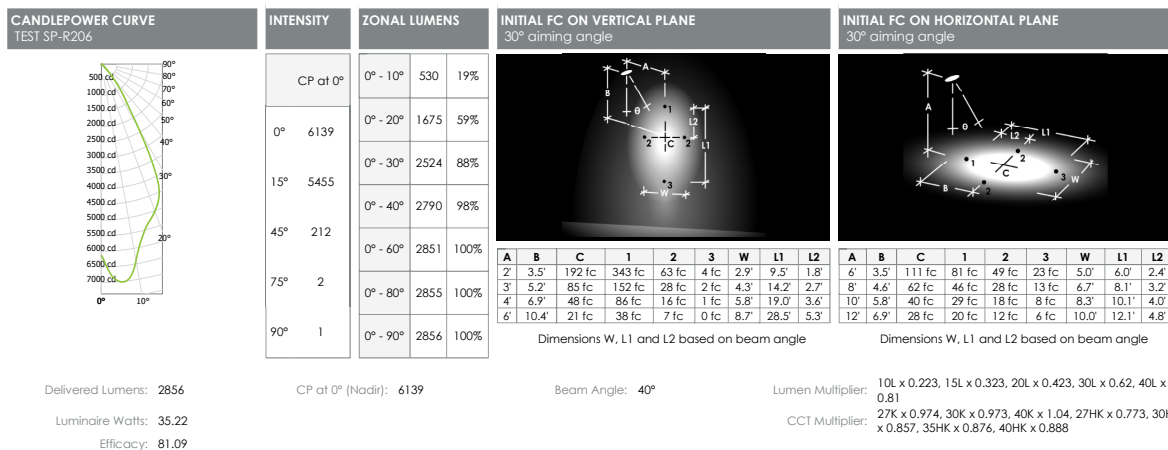
Beam Angle: 24°

Lumen Multiplier: 10L x 0.223, 15L x 0.323, 20L x 0.423, 30L x 0.62, 40L x 0.81

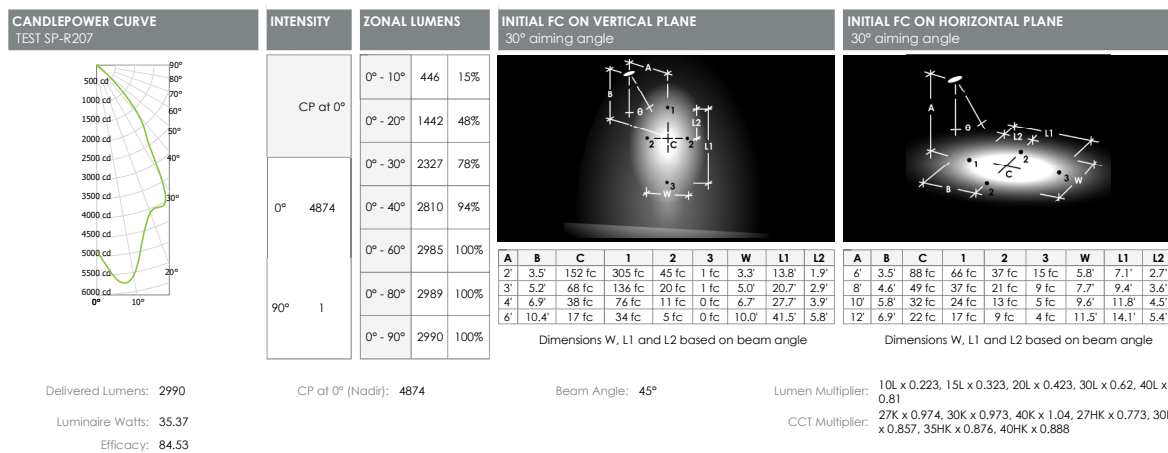
Luminaire Watts: 35.21
Efficacy: 76.06

CCT Multiplier: 27K x 0.974, 30K x 0.973, 40K x 1.04, 27HK x 0.773, 30HK x 0.857, 35HK x 0.876, 40HK x 0.888

RAFO4PC50L35KWDE1-RA4FPCSGMF - Adjustable



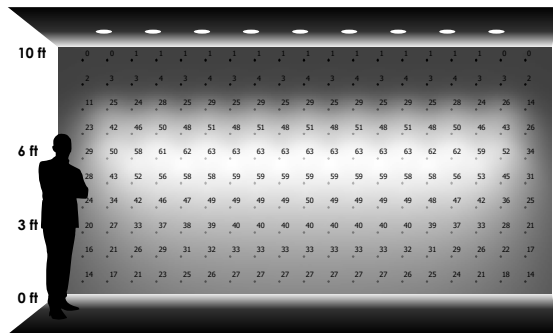
RAFO4PC50L35KXWE1-RA4FPCSGMF - Adjustable



RWFO4PC50L35KWDE1-RW4FPCSGMFSKX - Wall Wash

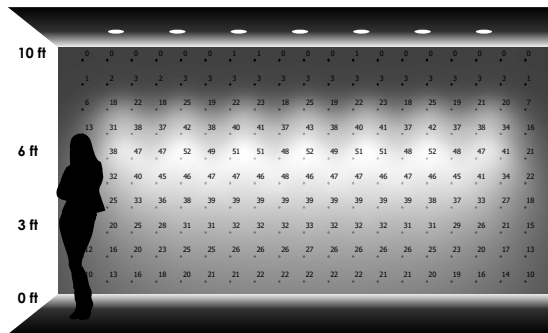
CANDLEPOWER CURVE TEST SP-R209	PERFORMANCE SUMMARY	REFERENCE DIAGRAM
	Delivered Lumens: 1957	
	Luminaire Watts: 35.25	
	LER: 55.52	
	CP at 0deg (Nadir): 3534	
	CRI: 80+	
	Lumen Multiplier: 10L x 0.223, 15L x 0.323, 20L x 0.423, 30L x 0.62, 40L x 0.81	
	CCT Multiplier: 27K x 0.974, 30K x 0.973, 40K x 1.04, 27HK x 0.773, 30HK x 0.857, 35HK x 0.876, 40HK x 0.888	

PERFORMANCE DATA - INITIAL ILLUMINATION (FOOTCANDLES) ON WALL - DIRECT LIGHT ONLY



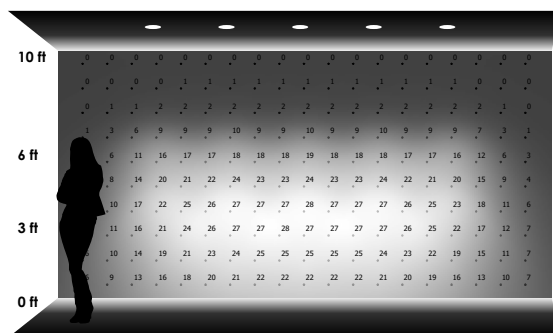
9 LUMINAIRES

2' - 0" away from wall
2' - 0" between luminaires



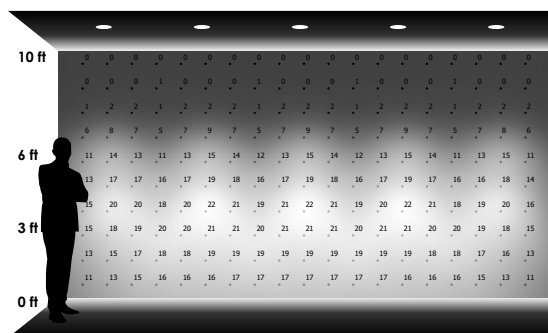
7 LUMINAIRES

2' - 6" away from wall
2' - 6" between luminaires



5 LUMINAIRES

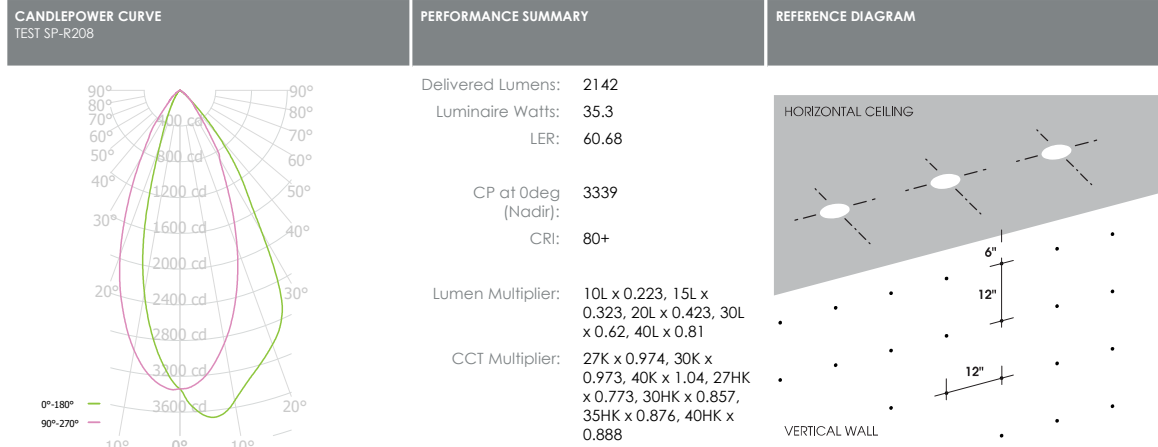
3' - 0" away from wall
3' - 0" between luminaires



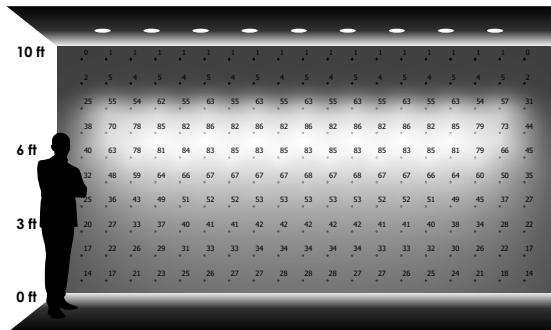
5 LUMINAIRES

3' - 0" away from wall
4' - 0" between luminaires

RWFO4PC50L35KXWE1-RW4FPCSGMFSKX - Wall Wash

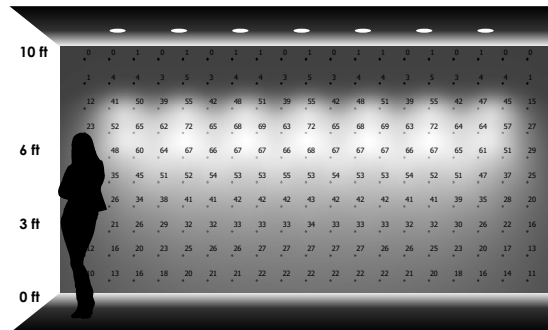


PERFORMANCE DATA - INITIAL ILLUMINATION (FOOTCANDLES) ON WALL - DIRECT LIGHT ONLY



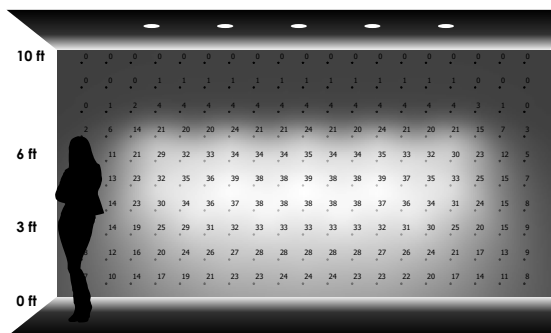
9 LUMINAIRES

2' - 0" away from wall
2' - 0" between luminaires



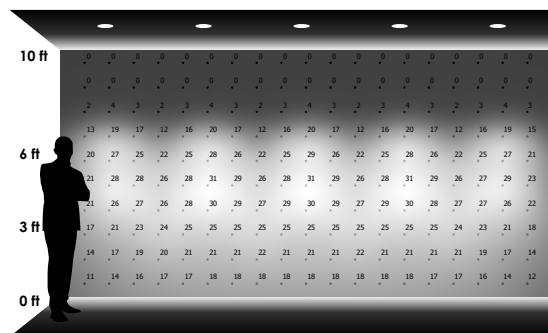
7 LUMINAIRES

2' - 6" away from wall
2' - 6" between luminaires



5 LUMINAIRES

3' - 0" away from wall
3' - 0" between luminaires



5 LUMINAIRES

3' - 0" away from wall
4' - 0" between luminaires